

BUDHA DAL PUBLIC SCHOOL PATIALA

First Term Examination (15 September 2025)

CLASS - VIII

PAPER- SCIENCE (SET-B)

Time: 3 hr.

M.M. 80

General Instructions:

- 1. All questions are compulsory.**
- 2. Attempt all questions section wise in the serial order neatly and leave one line after every answer.**
- 3. Draw neat and labelled diagrams wherever required.**

Section – A

I) Answer in one word :

(1×10=10)

- Q1.** What is the process of loosening and turning of the soil called?
- Q2.** What is the enzymatic breakdown of large organic molecule into smaller ones in the absence of air called?
- Q3.** Name the vector for dengue virus.
- Q4.** Which variety of coal has the highest percentage of carbon content in it?
- Q5.** Which Reserve Forest was developed to ensure the survival and maintenance of tiger populations?
- Q6.** Name the device used for measuring weight of an object.
- Q7.** On what principle, are the hydraulic disc brakes based?
- Q8.** What is the symmetrical shape of boats, aeroplanes etc. called?
- Q9.** What are negative ions known as?
- Q10.** Give one example of non-electrolyte.

Section – B

II) Answer the following questions.

(2×10=)

- Q1.** Write a short note on Kharif crops with one example.
- Q2.** What are the symptoms of food poisoning? Name two micro-organisms which cause food poisoning.
- Q3.** How does planting of trees on large scale help in reducing the pollution caused due to the burning of fossil fuels?
- Q4.** a) What is meant by migration of animals?
b) Name two migratory birds.
- Q5.** What is an ammeter? Where is an ammeter placed in an electric circuit?
- Q6.** Write a short note on LED.
- Q7.** A block of weight 20 kgf and dimension 5m × 2m × 1m rests on a table with base as (5m × 1m). Calculate the pressure exerted by the block on the table.
- Q8.** Define the following:
a) Electrostatic force b) Muscular force



- Q9. Name two factors on which force of friction depends.
Q10. Why friction is considered a necessary evil? Give two examples.

Section - C

III) Answer the reason based questions:

(2×4=8)

- Q1. Why are the automobile tyre made corrugated and rough?
Q2. Why is direct current used in electroplating?
Q3. Why drip irrigation method is considered advantageous over other methods?
Q4. Why is virus not included in the category of micro-organisms?

IV) Answer the following:

(3×8=24)

- Q1. How does a manure differ from a fertiliser? Write three points of difference.
Q2. a) What do you mean by nitrogen fixation?
b) Describe two ways of natural fixation of nitrogen.
Q3. Enlist any three important uses of coke.
Q4. What are Biosphere reserves? Write the objectives of setting up Biosphere Reserve.
Q5. Describe the electrolysis of acidulated water with the help of an activity. Draw diagram also.
Q6. a) How does lubricating (applying oil) help in reducing friction?
b) Name one dry lubricant.
Q7. Identify the effect of force in the following:
a) Fielder catching a fast moving ball
b) Squeezing a toothpaste tube
c) Batsman hitting a ball
Q8. a) Where is the pressure due to water higher in a dam - near its base or near its top? Why.
b) Why is it easy to cut with a sharp knife as compared to blunt knife?

Section - D

(8×1=8)

V) Multiple Choice Questions:

- Q1. The crop for which transplantation is necessary is :
a) wheat b) paddy (rice) c) maize d) sorghum
Q2. DDT, BHC and malathion belong to a class of compounds called
a) insecticides b) fungicides c) weedicides d) rodenticides
Q3. The micro-organism which causes food poisoning is :
a) staphylococci b) anaerobic bacteria c) yeast d) penicillium

B-

- Q4. The major constituent of natural gas is/are :
a) butane b) methane + hydrogen c) methane d) ethane
- Q5. The destructive distillation of coal gives
a) Asphalt b) Coke c) Gasoline d) Fuel oil
- Q6. In which of the following cases, friction is disadvantageous?
a) Running a machine
b) Applying brakes to a running vehicle
c) Walking on the road
d) Writing on a paper
- Q7. Which metal is electroplated on bathroom fittings to prevent corrosion?
a) Gold b) Aluminium c) Chromium d) Silver
- Q8. In the following question, two statements are given - one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to this question from the codes (a), (b), (c) and (d) as given below:
- Assertion (A) :** The animals which are abundantly surviving are called endangered animals.
- Reason (R) :** Asiatic lion, one horn rhinoceros etc. are endangered animals.
- a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true and R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

Section - E

VI) Read the passage carefully and answer the questions that follow: (1×5=5)

Species is a group of population which are capable of interbreeding. This means that the members of a species can reproduce fertile offspring only with the members of their own species and not with the members of other species.

Endemic species are those species of plants and animals which are found exclusively in a particular area. A particular type of animal or plant may be endemic to a zone, state or a country like Bison and Flying Squirrel.

Tiger is one of the many species which are slowly disappearing from our forests. Project Tiger was launched by the government to protect the tigers in the country. The Satpura Tiger Reserve is unique in the sense that a significant increase in the population of tigers has been seen here. But there are animals whose numbers are diminishing to a level that they might face extinction like Asiatic lion, Indian Rhinoceros etc. These are known as endangered animals and are not likely to survive in future if conditions are not favourable.

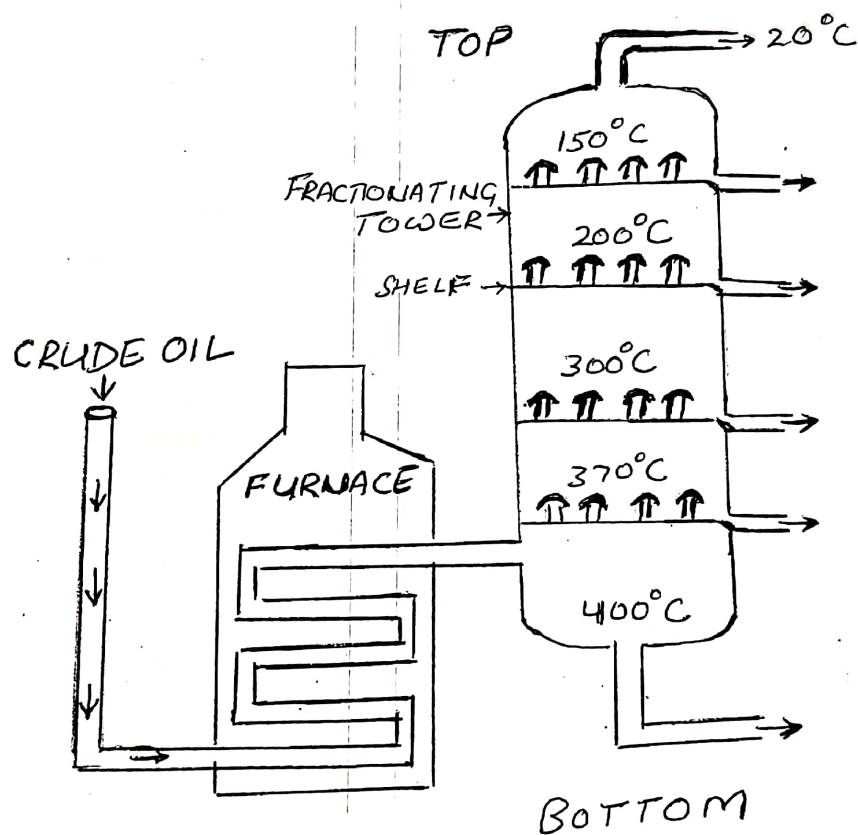
- Q1) What are species?
Q2) What are characteristics of species?
Q3) What is meant by Project Tiger?
Q4) What are endangered animals?
Q5) What are endemic species?



VII) Answer these questions based on the given diagram:

(5)

- 1) Name the process of separating petroleum into usable fractions.
- 2) What is the use of gas which goes out from the top of column?
- 3) What type of shelves are fitted in the fractionating tower?
- 4) Give one use of residue collected at the bottom of column.
- 5) Which part is fitted with fractionating column to heat the crude oil?



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